

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1. (Currently Amended) ~~Method~~ A method for modifying a sound reproduction of a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system ~~with steps for~~ , the method comprising:

[[-]] identifying audio data in the music file which represent a sound with a spectral component below [[the]] a transmission frequency range of the loudspeaker[[,]]
; and

[[-]] modifying a sound reproduction of ~~sound from~~ the identified audio data such [[,]] that the modified sound reproduction yields a sound spectrum having an increased energy content within the transmission frequency range of the loudspeaker as compared to a sound spectrum of ~~obtained by~~ an unmodified sound reproduction,

~~whereby wherein~~ the modified sound reproduction ~~of sound~~ is based on swapping replacing a specification ~~given~~ provided in the music file for [[the]] an instrument used to reproduce sound from the identified audio data [[by]] with a substitute specification of an instrument with brighter timbre.

2. (Currently Amended) ~~Method~~ A method according to claim 1, ~~characterised in that~~ wherein the instrument of the substitute specification belongs to [[the]] a same category of instruments as the ~~originally specified~~ instrument of the specification provided in the music file.

3. (Currently Amended) ~~Method~~ A method according to claim 1 [[or 2]], ~~characterised in that if~~ wherein more than one substitute specification is available ~~for~~

~~being swapped with an original specification in the music file, the , and wherein a~~
particular substitute specification is selected based on ~~[[the]]~~ a register in which the
~~originally-specified instrument of the specification provided in the music file~~ is to be
replayed.

4. (Currently Amended) ~~Method~~ A method for modifying a sound
reproduction of a music file according to a transmission characteristic of a loudspeaker
of a mobile terminal of a wireless communication system ~~with steps for , the method~~
comprising:

~~[[-]]~~ identifying audio data in the music file which represent a sound with a
spectral component below ~~[[the]]~~ a transmission frequency range of the loudspeaker~~[[,]]~~
; and

~~[[-]]~~ modifying a sound reproduction of ~~sound from~~ the identified audio data
such ~~[[,]]~~ that the modified sound reproduction yields a sound spectrum having an
increased energy content within the transmission frequency range of the loudspeaker as
compared to a sound spectrum of obtained by an unmodified sound reproduction,

~~whereby wherein~~ the modified sound reproduction ~~of sound~~ is based on a
transposition of frequency data in the music file ~~the sound spectrum~~ to a higher
frequency range.

5. (Currently Amended) ~~Method~~ A method according to claim 4,
~~characterised in that wherein~~ the transposition shifts the sound spectrum of the
modified sound reproduction such ~~[[,]]~~ that the lower end of the sound spectrum of the
modified sound reproduction is located within the transmission frequency range of the
loudspeaker.

6. (Currently Amended) ~~Method~~ A method according to claim 5,
~~characterised in that the wherein~~ a main energy content of the ~~transposed~~ sound

spectrum of the modified sound reproduction is located within a frequency range from about 5 kHz to about 10 kHz.

7. (Currently Amended) ~~Method~~ A method according to ~~one of the claims 1 to 6~~ claim 4, ~~characterised in that wherein~~ the modified sound reproduction of sound is based on a modified parameter file.

8. (Currently Amended) ~~Method~~ A method according to ~~one of the claims 1 to 6~~ claim 4, ~~characterised in that wherein~~ the modified sound reproduction of sound is based on a modified FM-spectra file.

9. (Currently Amended) ~~Method~~ A method according ~~one of the claims 1 to 8~~ claim 4, ~~characterised in that wherein~~ [[the]] a format of the music file corresponds to a MIDI data file format.

10. (Currently Amended) ~~Apparatus~~ An apparatus for rendering sampled data from a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system, the apparatus (100) comprising:

[[-]] storage means (101) for storing the music file and data related to [[the]] transmission ~~characteristic~~ characteristics of one or more ~~loudspeaker~~ loudspeakers,

[[-]] selection means (102) for selecting data for a particular loudspeaker from the storage means,

[[-]] low frequency sound identification means (103) for identifying audio data in the music file which represent a sound with a spectral component below [[the]] a transmission frequency range of [[a]] the particular loudspeaker ~~according~~ corresponding to the selected data,

[[-]] control means (104) for controlling a modification of a sound reproduction ~~of sound~~ from the identified audio data such [[,]] that the modified sound reproduction yields a sound spectrum having an increased energy content within the

transmission frequency range of the particular loudspeaker as compared to a sound spectrum of obtained by an unmodified sound reproduction[[,]] ; and

[[-]] synthesising synthesizing means (105) for synthesising synthesizing sampled data from [[the]] a modified music score file,

whereby wherein the control means (104) modifies the reproduction of a music file to provide the modified music file according to a method of one of the claims 1 to 9 by replacing a specification of an instrument provided in the music file for the identified audio data with a substitute specification of an instrument having brighter timbre and/or by transposing frequency data in the music file to a higher frequency range.

11. (Currently Amended) Apparatus An apparatus according to claim 10, characterised in that wherein the control means (104) is adapted configured to store modified audio data representing the a sound obtained by a modified sound reproduction in a music file in [[a]] the storage means (101) of the apparatus (100).

12. (Currently Amended) Apparatus An apparatus according to one of the claims 10 or 11 claim 10, characterised in that wherein the control means (104) is adapted configured to modify the sound reproduction of sound at [[the]] a time [[the]] a respective music file is replayed via the loudspeaker.

13. (Currently Amended) Mobile A mobile terminal for use with a wireless communication system and adapted configured to reproduce audio data from a music file, the mobile terminal comprising:

[[-]] an apparatus according to claim 10 (100) for rendering configured to render sampled data from the music file according to one of the claims 10 to 12, ;

[[-]] a transformation means for transforming configured to transform the sampled data obtained from the apparatus (100) into a respective analogue an analog electrical signal [[,]] ; and

[[-]] a loudspeaker ~~for converting~~ configured to convert the ~~analogue~~ analog electrical signal into a ~~respective~~ sound signal.

14. (Currently Amended) ~~Software~~ A computer program product for modifying a sound reproduction of a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system, the computer program product comprising:

a computer readable storage medium having computer readable program code embodied therein that is a series of state elements which are adapted configured to be processed by a data processing means of ~~[[a]]~~ the mobile terminal such, that to carry out a method according to ~~one of the claims 1 to 9 may be executed thereon~~ claim 1.